INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 2004/000153

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B63B 27/16, B63B 27/30, B66C 13/02
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B63B, B66C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

	TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X	US 4395178 A (MACDONELL ET AL), 26 July 1983 (26.07.1983), figures 1-4, abstract		
į	~~		
X	US 4180362 A (STAIR), 25 December 1979 (25.12.1979), figures 1,2, abstract	1-3,6,10	
X	US 5713710 A (STRONG ET AL), 3 February 1998 (03.02.1998), column 4, line 5 - line 31, figures 1,4A, abstract	1-3,6-10	
X	US 2874855 A (WARREN A RESS JR), 24 February 1959 (24.02.1959), column 2, line 42 - line 65, figures 1,2	1,8	
		İ	

X	Further documents are listed in the continuation of Box C.	X
		بننب

See patent family annex.

- Special categories of cited documents:
- document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other
- document published prior to the international filing date but later than the priority date claimed
- later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

5 October 2004

Name and mailing address of the ISA/

Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86

Date of mailing of the international search report

0 5 -10- 2004

Authorized officer

Carl Fröderberg/EK Telephone No. +46 8 782 25 00

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 2004/000153

C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/NO 2004	.,
	Chair and Considered TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant	ant passages	Relevant to claim No
A	US 6309160 B1 (GREENE, JR), 30 October 2001 (30.10.2001), column 7, line 40 - line 50, 2, abstract		1,8
A	US 4412598 A (KIMON ET AL), 1 November 1983 (01.11.1983), figures 1A,1B, abstract		1,8
			·
į			
		<u>.</u>	
DCTT	210 (continuation of second sheet) (January 2004)	1	

INTERNATIONAL SEARCH REPORT Information on patent family members

International application No. PCT/NO 2004/000153

						
US	4395178	A	26/07/1983	AU	549285 B	23/01/1986
				UΑ	7836581 A	17/06/1982
				EP	0053770 A	16/06/1982
				NO	813230 A	09/06/1982
				NZ	199064 A	31/07/1985
US	4180362	Α	25/12/1979	NONE		
US	5713710	A	03/02/1998	AU	6148194 A	11/10/1994
				GB	2290524 A,B	03/01/1996
				GB	9305185 D	00/00/0000
				GB	9518639 D	00/00/0000
				NO	953590 A	10/11/1995
				MO	9421511 A	29/09/1994
				GB	9324780 D	00/00/0000
				AU	680095 B	17/07/1997
				AU	1411395 A	01/08/1995
				BR	9506487 A	07/10/1997
				CA	2180326 A	20/07/1995
				EP	0739407 A	30/10/1996
				GB	2285630 A	19/07/1995
				GB	9400437 D	00/00/0000
				JР	9508153 T	19/08/1997
				NZ	278034 A	26/05/1997
				PL	315523 A	12/11/1996
				MO	9519413 A	20/07/1995
~~~~~~				ZA 	9500220 A	07/02/1996
US	2874855	A	24/02/1959	NONE		
US	6309160	B1	30/10/2001	NONE	- # # <del></del>	
US	4412598	A	01/11/1983	GB	2091678 A,B	04/08/1982